

CLIMATOLOGICAL DATA FOR OCTOBER, 1911.

DISTRICT No. 2, SOUTH ATLANTIC AND EAST GULF STATES.

CHARLES F. VON HERRMANN, District Editor.

GENERAL SUMMARY.

As compared with October in 1909 and 1910, in both of which years subtropical disturbances of great force passed over Florida and adjacent south Atlantic coast districts, the current month was of quiet character. It is true that a tropical storm of moderate force was observed near Turks Island on the 25th which was central southeast of extreme southern Florida on the 26th, but this storm fortunately passed into the southeastern portion of the Gulf of Mexico where it lingered for a few days without recurring toward the northeast. Suitable warnings were issued to the Florida coast stations on the 25th and 26th, and no damage even to vessels at sea was reported. In consequence of the immunity from severe storms along the Florida coast rapid progress is being made toward the completion of the sea-going railway into Key West. Nevertheless, though uneventful as regards storms, the month presents some interesting features. Unusually high temperatures prevailed throughout the first decade and although the latter part of the month was cool the excess in temperature was so great that the current month ranks with the very warm Octobers of 1884, 1897, 1900, and 1910, and even surpassed all previous records in several States, notably in Georgia and Florida. The maximum temperatures for the 3d to 8th, reaching or exceeding 100° in portions of Mississippi, Alabama, and Georgia, and ranging from 92° to 99° in other States, have in many cases never before been equaled in October and must be considered most remarkable.

The condition of drought characteristic of the entire summer continued to prevail for the first few days of October, but was subsequently relieved by copious rainfall over large portions of the district. The rainfall was irregularly distributed; it was above normal in all States except Mississippi, where a small deficiency occurred. The excess for the month exceeded 2 inches in South Carolina and Georgia; in South Carolina the month was the wettest on record, and in Georgia only October, 1898, gave a slightly greater average rainfall. Falling in rather large amounts the water from the several individual storms was rapidly carried away and the rivers soon declined to almost their previous low stages. A long period of rainfall will be necessary to fully restore the level of the ground waters.

The distribution of atmospheric pressure presents no features of special interest. No distinct depressions passed over the district. The lowest pressure for the month was 29.73 inches on the 7th at Cape Henry, Norfolk, and Lynchburg, Va.; generally, however, the lowest pressures were registered on the 17th during the passage of a severe storm over the upper Lake region. The highest atmospheric pressure occurred everywhere on the 25th, with the maximum, 30.52 inches, at Lynchburg, Va.

The first light frosts of the season occurred on October 23, and during the two or three following days light to killing frosts were general over the northern portions of the district but without material damage. The number of clear days was fairly large and conditions generally were not unfavorable for agricultural interests.

TEMPERATURE.

The temperature for October was above normal in nearly all portions of the district, only one station, Richmond, Va., reporting a small deficiency. The mean temperatures at individual stations near the coasts of Virginia and North Carolina did not differ materially from the normals, but the State averages show a gradual increase in the departure which reached +7° in northern Florida, south-central Georgia, and northern Alabama. The greatest excess at any regular Weather Bureau station was 6.3° at Jacksonville, Fla. The State means for all of the States touching the Gulf averaged over 4.5° above the normal. In Georgia and Florida the current month was the warmest October since 1891, and in several other States the warm October of 1900 was almost equaled.

The first half of the month was very warm and summer-like, and the maximum temperatures in many portions of the district during the first decade were unprecedented. In Virginia the warmest days were the 4th and 7th and the maximum temperatures ranged from 80° to 92°; in the Carolinas the 7th was the warmest day, and temperatures of 95° to 99° were registered at many stations; in Georgia during the first 8 days of the month the maximum temperatures were generally above 95° except in the northern portion of the State, and at 6 stations in the southwestern section where temperatures of 100° or over were experienced on several days, far surpassing all previous records for October. Similar high temperatures also occurred in Alabama, Florida, and Mississippi.

Warm weather continued in the northern portion of the district until about the 13th and in the southern portion until the 16th, after which temperatures were moderately below normal. The coldest weather occurred quite generally from about the 22d or 23d to the 25th, during which period minimum temperatures slightly below freezing were reported in the northern portions of Mississippi, Alabama, and Georgia and in western North Carolina and Virginia, with light to killing frosts at many places. As a rule, however, the minimum temperatures were not nearly so low as commonly occur in October, and the frosts did little damage.

The mean temperature for the entire district was 67.9° or 4.1° above the normal. The highest State mean was 76.6° for Florida, and the lowest 60.3° for the Virginia area. The means at individual stations ranged mostly between 55° and 70°, but at two stations in Florida,

Miami and Key West, the means were above 80° , highest 81.8° at Key West, and at one station in Virginia the mean was below 55° , the lowest 53.8° at Hot Springs. The highest temperature for the district was 101° at several stations in Alabama and Georgia on 5 dates from the 3d to 8th, and the lowest was 30° at 5 places on the 23d to 25th.

PRECIPITATION.

The general drought that prevailed over the district at the close of September continued during the first week of October, although light showers occurred from the 1st to 3d in the Carolinas and Virginia, but during the remainder of the month abundant rains fell in most sections. Though not distinctly associated with areas of low atmospheric pressure 3 or 4 well-defined periods of general rains occurred, namely, from the 7th to 12th, 17th to 18th in the northern, 14th to 18th in the southern portion of the district, and in the northern portion 22d to 23d, 27th to 28th, and on the 31st, while near the Gulf the rainfall during the latter portion of the month was more irregularly distributed. During each of these periods the rainfall was quite heavy at many stations.

The precipitation for the entire district averaged 4.19 inches or 1.09 inches above the normal. The State averages show a small deficiency for the Mississippi area, moderate excess for Alabama, North Carolina, and Virginia, and a marked excess for South Carolina, Georgia, and Florida. In South Carolina the current October was the wettest October on record, having an average rainfall of 5.89 inches as compared with 5 in October, 1899; in Georgia the State average, which approximated twice the normal amount, was the highest on record for October during the past 20 years, excepting only October, 1898.

The regions of greatest rainfall, where the total for the month exceeded 10 inches, are very small areas on the west coast of Florida just north and south of Tampa, on the Georgia coast, and in extreme western South Carolina. The largest amount for the district was 14.17 inches at Liberty, S. C. The least rainfall occurred in the central portion of southern Georgia, in southwestern Alabama, and in the central portion of the Mississippi area. The monthly rainfall was under 1 inch at only 2 stations in Alabama and 4 in Mississippi. The least amount for the district was 0.35 inch at Evergreen, Ala. The number of days with appreciable rainfall averaged 7, ranging from 5 in Mississippi to 9 in Florida and Virginia.

RIVER CONDITIONS.

The rivers throughout the district continued to maintain very low stages during the first decade of October,

and the heavy rains of the middle and latter portion of the month in many cases failed to restore the normal rate of flow. In Mississippi and Alabama the rivers remained very low during the entire month. The Chattahoochee and Flint Rivers in Georgia were unusually low early in the month, the Flint River at Albany reaching the lowest point in its history, namely, -1.1 foot on the 9th to 12th. These rivers experienced only a very moderate rise during the latter portion of the month. A moderate rise was experienced at Macon, Ga., on the 23d, when the Ocmulgee reached a stage of 14.3 feet, flood stage 18 feet. In South Carolina the heavy rains on the 17th to 18th caused a rather rapid rise in all streams, and flood stages were slightly exceeded in the Catawba-Wateree on the 19th to 21st and in the Santee during the following few days. The highest stages were: At Camden on the Wateree 24 feet on the 20th, flood stage 24 feet; at Catawba on the Catawba River 11.3 feet on the 19th, flood stage 11 feet; and at Rimini on the Santee 13.3 feet on the 26th to 28th, flood stage 12 feet. Warnings were issued in ample time and no damage resulted.

In North Carolina the Roanoke and Cape Fear Rivers experienced moderate rises on the 20th to 24.4 feet at Weldon and to 12.9 feet at Fayetteville. The James River at Richmond reached a stage of about 4 feet on the 20th, or 6 feet below flood stage, but the highest point attained since last spring.

MISCELLANEOUS PHENOMENA.

The prevailing winds during October were from the northeast in all portions of the district except Alabama and Mississippi where they were from the north. The wind movement was moderate, the average hourly velocity for the month exceeding 10 miles only at Cape Henry, Va., Hatteras, N. C., Savannah, Ga., and Pensacola, Fla. The following are the highest velocities registered: Cape Henry 43 miles from the northeast on the 7th, and Hatteras 40 miles from the north on the same day. The amount of sunshine was deficient in the northern portion of the district, but above normal from Georgia west to the Mississippi area. The average number of clear days for the district was 14, ranging from 12 in Virginia to 16 in Mississippi, and the average number of cloudy days was 10, ranging from 7 in Florida to 13 in Virginia. At many places thunderstorms of mild character occurred but no severe storms were reported. In Alabama and Georgia the unusually warm weather caused many peach and pear trees to bloom, the trees being well covered with blossoms and presenting a springlike appearance.

TABLE 1.—Climatological data for October, 1911. District No. 2, South Atlantic and east Gulf States.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmodified.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Virginia.</i>																				
Arvonia.....	Buckingham.....	350	7	58.8	+ 2.1	82	4	33	25	34	3.92	+ 0.64	1.92	0	10	12	7	12	n.	Rev. Plummer F. Jones.
Buchanan.....	Botetourt.....	820	7	58.5	+ 2.0	86	7	37	25	36	5.98	+ 2.41	2.61	0	7	10	6	13	w.	D. D. Booze.
Callaville.....	Brunswick.....	250	17	60.5	+ 2.0	86	7	47	14	31	1.70	- 2.18	0.93	0	10	12	6	13	e.	F. M. Gage.
Cape Henry.....	Princess Anne.....	20	37	62.6	+ 0.5	88	7	47	14	31	0.61	- 0.13	0.11	0	9	9	9	13	n.	U. S. Weather Bureau.
Charlottesville.....	Albermarle.....	800	22	58.6	+ 1.0	82	4	39	25†	29	4.07	+ 0.61	1.45	0	13	9	6	16	sw.	Leander McCormick Obsy.
Clerksville.....	Mecklenburg.....	17									3.99	+ 1.35	1.40	0	6	13	2	16		J. A. Ligon.
Columbia.....	Fluvanna.....	246	13	58.5	+ 1.3	81	4	34	26	33	3.79	+ 0.32	1.54	0	6	13	2	16	n.	C. & O. R. R.
Danville.....	Pittsylvania.....	413	11								4.94	+ 1.97	2.06	0	7					C. G. Watkins.
Diamond Springs.....	Princess Anne.....	25	1	62.2	-	92	7	40	27	30	2.64	-	0.68	0	11	8	14	9		Va. Truck Exp. Sta.
Hampton.....	Elizabeth City.....	5	28	62.5	+ 1.1	87	7	46	27†	24	1.81	- 1.52	0.55	0	10	13	5	10	ne.	Normal and Agr. Inst.
Hot Springs.....	Bath.....	2,195	19	53.8	+ 2.5	78	4	29	25†	35	5.21	+ 2.19	1.40	0	13	15	6	10		F. M. Terry.
Lassiter.....	Goochland.....	100	2								3.00	-	1.20	0	4	5	3	13		T. J. Davis.
Lexington.....	Rockbridge.....	1,080	34	57.2	+ 2.8	86	4	30	25	34	4.43	+ 1.44	2.00	0	11	14	5	12		Virginia Military Institute.
Lynchburg.....	Campbell.....	635	40	59.2	+ 2.3	87	7	35	25	33	3.87	+ 0.48	1.00	0	12	7	12	12		U. S. Weather Bureau.
New Castle.....	Craig.....	1,300	2								4.97	-	1.20	0	9					Miss J. L. Martin.
Newport News.....	Warwick.....	55	8	62.7	-	88	7	45	29	33	2.94	-	0.93	0	14	12	7	12	ne.	C. W. Ashby.
Norfolk.....	Norfolk.....	91	41	62.6	+ 1.3	89	7	48	27	33	2.77	- 1.14	0.72	0	13	9	7	15	ne.	U. S. Weather Bureau.
Randolph.....	Charlotte.....	334	7								4.20	-	1.17	0	6					W. J. Abbott.
Richmond.....	Henrico.....	144	32	59.2	- 0.6	85	4	40	29	34	3.61	+ 0.29	1.27	0	11	9	8	14	ne.	U. S. Weather Bureau.
Rocky Mount.....	Franklin.....	1,150	17	58.6	+ 1.5	87	7	30	25†	38	4.77	+ 0.89	1.78	0	10					G. W. B. Hale.
Saxe.....	Charlotte.....	350	8	62.8	-	92	7	49	35	30	3.90	-	1.16	0	6	18	2	11	ne.	State Experiment Farm.
Spottsville (near).....	Surry.....	15	23	60.4	+ 2.5	84	4	37	26†	36	3.71	- 0.31	0.95	0	10	11	3	17	ne.	B. W. Jones.
Williamsburg.....	James City.....	70	20	64.4	+ 5.6	85	4	46	24	27	2.45	- 0.88	0.70	0	6	14	9	8	sw.	Eastern State Hospital.
<i>North Carolina.</i>																				
Albemarle.....	Stanly.....	700	...	64.0	-	95	7	35	25	38	3.83	-	2.67	0	7	19	3	9	ne.	M. J. Harris.
Beaufort.....	Carteret.....	10	10	68.8 ^a	+ 3.4	85	2	55	30	19	3.49	- 1.97	1.04	0	11	17	6	8	ne.	H. D. Aller.
Belhaven.....	Beaufort.....	4	2	66.0	-	90	7	43	14†	35	3.74	-	1.60	0	4	23	4	4	ne.	A. L. Bell.
Brewers.....	Wilkes.....	1,950	14	60.8 ^a	+ 2.0	91	7	31	25	44	6.03	+ 1.77	3.56	0	9	14	7	10	w.	W. L. Brewer.
Caroileen.....	Rutherford.....	806	11	63.3	+ 3.5	92	7	38	25	33	6.37	+ 3.92	3.25	0	7	17	5	9	sw.	S. B. Tanner.
Chalybeate Springs.....	Harnett.....	500	5	64.0 ^a	-	95	7	40	24	38	3.98	-	2.34	0	6	18	5	8	sw.	J. A. Smith.
Chapel Hill.....	Orange.....	500	52	63.8	+ 3.9	95	7	42	25†	34	3.08	- 0.17	1.90	0	8	18	5	8	sw.	Prof. A. H. Patterson.
Charlotte.....	Mecklenburg.....	773	35	63.4	+ 2.3	91	7	41	25	26	3.51	+ 0.36	1.63	0	8	11	6	14	ne.	U. S. Weather Bureau.
Chimney Rock.....	Rutherford.....	1,150	1	62.9	-	90	2	36	25	36	7.49	-	4.02	0	7	19	4	8	w.	J. M. Flack.
Durham (near).....	Durham.....	406	2								3.26	-	2.10	0	9					J. C. Michie.
Eagleton.....	Northampton.....	66	6	62.2	-	92	7	41	25†	33	2.95	-	0.81	0	11	12	12	7	sw.	J. T. Elliott.
Edenton.....	Chowan.....	30	17	61.9 ^b	+ 0.5	88	7	43	14	28	4.15	- 0.28	1.35	0	7	17	2	12	ne.	E. R. Conger.
Enfield (near).....	Bladen.....	60									5.21	-	0.99	0	6					J. W. Hall, Jr.
Halifax.....	Fayetteville.....	99	24	65.4	+ 3.4	93	7	43	25	32	3.29	- 0.20	1.53	0	4	12	4	15	ne.	T. S. Inboden.
Goldsboro.....	Cumberland.....	170	24	65.4	+ 3.4	93	7	43	25	32	3.29	- 0.20	1.53	0	4	12	4	15	ne.	Frank Glover.
Graham.....	Wayne.....	102	41	63.4	+ 1.9	86	2	45	25†	29	3.53	+ 0.33	1.55	0	7					Mrs. N. B. Taylor.
Greensboro.....	Alamance.....	656	9	63.4	+ 1.9	86	2	45	25†	29	3.69	+ 0.33	1.59	0	7					Dr. W. R. Goley.
Greenville.....	Guildford.....	843	30	60.2	0.0	89	7	38	25	37	4.05	+ 1.14	1.25	0	7					R. M. Hearne.
Hatteras.....	Pitt.....	11	37	67.2	+ 1.0	85	2	55	14	17	2.43	- 3.58	1.29	0	10	8	16	7	ne.	U. S. Weather Bureau.
Henderson.....	Dare.....	508	18	60.6	+ 0.9	90	7	35	25	40	4.14	+ 0.98	1.24	0	12	10	6	9	ne.	Enoch Powell.
Kings Mountain (near).....	Vance.....	952	14	62.0	-	96 ^c	7	36	26†	35	4.28	-	1.86	0	8	13	7	11	w.	Rev. C. J. Strang.
Kinston.....	Lenoir.....	46	13	65.8	+ 3.4	92	2†	41	28	36	2.93	+ 0.30	1.33	0	7	12	3	16	ne.	H. C. V. Peebles.
Lenoir.....	Caldwell.....	1,186	38	60.7	+ 4.2	92	7	31	25†	43	6.88	+ 3.56	3.50	0	10	20	1	10	s.	G. M. Goforth.
Lincolnton.....	Lincoln.....	994	6	62.0	-	95 ^c	7	39 ^b	26	44 ^b	4.02	-	1.52	0	6	7	15	9	ne.	Blair Jenkins.
Louisburg.....	Franklin.....	375	20	61.5	+ 2.6	91	7	40	25	30	3.76	- 0.86	1.14	0	6	16	7	8	sw.	T. B. Wilder.
Lumberton.....	Robeson.....	102	28	66.4	+ 4.7	96	7	45	25	38	4.84	+ 1.62	1.72	0	7					B. M. Davis.
Manteo.....	Dare.....	12	6	64.4	-	92	7	42	14	29	8.42	-	3.55	0	8	21	2	8	ne.	U. S. Weather Bureau.
Marion.....	McDowell.....	1,425	19	61.8	+ 3.3	91	7	34	25	38	6.67	+ 2.44	3.06	0	14	16	7	8	e.	Sergt. Thos. McGuire.
Middletown.....	Hyde.....	4	4	65.4	-	91	7	45	27	29	5.30	-	2.50	0	7	15	6	10	e.	J. S. Mann.
Moncure.....	Chatham.....	145	17	63.0	+ 3.1	94	7	37	24	38	2.60	+ 0.11	1.61	0	7	19	1	11	ne.	B. J. Utley.
Monroe.....	Union.....	586	17	63.7	+ 4.7	94	7	36	25	35	5.02	+ 1.53	1.98	0	6	15	6	10	ne.	T. A. Ashcraft.
Morganton.....	Burke.....	1,135	24	61.4	+ 4.1	92	7	32	25	38	5.69	+ 2.07	2.95	0	9	19	3	9	ne.	J. B. P. Massey.
Mount Airy.....	Surry.....	1,048	23	60.4	+ 4.3	80	2†	30	25	40	5.68	+ 2.99	2.94	0	11	20	1	10	ne.	Prov. A. H. Merritt.
Mount Holly.....	Gaston.....	616	14								3.96	+ 1.00	1.60	0	4					J. W. Holland.
Nashville.....	Nash.....	190	7	62.5	-	94	7	37	25	33	2.71	-	1.05	0	6	11	6	14	ne.	J. B. Boddie.
Neuse.....	Wake.....	266									3.36	-	1.68	0	8					G. H. Mooneyham.
Newbern.....	Craven.....	12	29	64.4	+ 1.6	93	2	44	27†	40	6.37	+ 2.56	3.45	0	8					J. B. Hill.
Parkersburg.....	Sampson.....	121		66.1	-	96	7	42	25	34	3.85	-	1.30	0	4	20	3	8	se.	E. J. Conway.
Pinehurst.....	Moore.....	650	7	62.6	-	91	7	39	26	40	3.81	-	1.90	0	4	21	8	10	ne.	General office.
Raleigh.....	Wake.....	390	40	62.5	+ 2.0	92	7	43	25	39	3.08	- 0.42	1.79	0	14	9	9	13	ne.	U. S. Weather Bureau.
Ramsour.....	Iredell.....	442	4	62.5	-	95	7	33	26	41	4.00	-	2.70	0	9	21	8	2	ne.	A. H. York.
Randleman.....	do.....	810	6																	

TABLE 1.—Climatological data for October, 1911. District No. 2—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
<i>South Carolina—Con.</i>																			
Batesburg.	Lexington.	656	23	66.1	+ 3.5	90	5	44	25	29	7.37	+ 4.30	1.96	0	8	14	1	16	s.
Blackville.	Barnwell.	296	22	70.0	+ 5.9	95	1†	46	24	35	5.57	+ 2.71	1.54	0	8	6	9	16	ne.
Blairs.	Fairfield.	293	6								5.10		1.13	0	8	12	7	12	ne.
Bowman.	Orangeburg.	160	10	67.0	+ 3.2	91	7	47	25	38	4.47	- 1	1.13	1.24	0	9	13	6	w.
Calhoun Falls.	Abbeville.	508	18								4.86	+ 2.08	1.33	0	9	14	8	9	e.
Caunden.	Kershaw.	222	45	69.6		95	7	48	24	24	6.84	+ 4.12	1.94	0	6	12	6	13	ne.
Catawba.	York.	562	6								5.89		2.04	0	10	12	3	16	n.
Chappells.	Newberry.	402	6								5.60		2.46	0	5	15	1	15	sw.
Charleston.	Charleston.	48	41	71.6	+ 4.5	93	7	54	29	17	3.92	- 0.01	1.81	0	8	7	14	10	U. S. Weather Bureau.
Cheraw.	Chesterfield.	144	23	68.4	+ 7.7	93	7	47	25	27	4.45	+ 1.78	1.40	0	7	9	6	16	n.
Clemson College.	Oconee.	850	20	61.4	+ 3.0	86	7	40	24	24	7.34	+ 4.56	2.04	0	5	19	4	8	s.
Columbia.	Richland.	351	25	67.0	+ 3.0	92	7	46	25	27	6.03	+ 3.78	1.97	0	10	8	11	12	ne.
Conway.	Horry.	25	19	69.8	+ 7.0	95	7	49	30	34	3.20	- 0.10	2.22	0	6	12	1	18	ne.
Darlington.	Darlington.	175	16	65.5		94	7	42	25	32	7.71	+ 5.09	4.62	0	7				D. C. McCall.
Dillon.	Dillon.	100	7	67.0	+ 3.8	97	7	46	25†	31	6.16	+ 3.09	2.98	0	8				A. E. Rowell.
Evingham.	Florence.	106	19								6.00	+ 3.07	2.05	0	5	18	1	12	ne.
Ferguson.	Berkeley.	51	3	67.1	+ 4.2	94	7	48	25	36	4.08	+ 1.08	1.63	0	4	11	8	12	ne.
Florence.	Florence.	136	23	66.9	+ 4.0	89	1†	46	25	30	3.06	+ 5.21	3.24	0	6	11	1	19	H. K. Gilbert.
Georgetown.	Georgetown.	12	14	69.4	+ 4.6	93	7	52	24†	27	4.08	+ 0.70	2.67	0	6	8	14	9	e.
Greenville.	Greenville.	989	19	64.8	+ 5.0	92	7	42	24†	37	5.71	+ 2.95	1.99	0	12	16	5	10	e.
Greenwood.	Greenwood.	671	23	65.2	+ 3.6	94	7	43	24	36	5.92	+ 3.37	1.60	0	8	14	0	17	Spartan Goodlette.
Heath Springs.	Lancaster.	568	10	63.1		90	1†	37	29	25	5.25		1.33	0	6	15	5	11	ne.
Jacksonboro.	Colleton.	13	3	69.9		91	7	51	30	23	4.02		1.48	0	5	13	6	12	sw.
Kingstree.	Williamsburg.	54	23	67.2	+ 2.9	94	7	44	27	38	3.69	+ 1.19	1.30	0	7	11	3	17	nw.
Liberty.	Pickens.	900	17	66.4	+ 6.5	95	7	40	24	31	14.17	+ 11.30	3.80	0	10	14	10	7	e.
Meriwether.	Edgefield.	2	67.9			94	7	44	23†	29	6.66		2.00	0	7				Wm. S. Middleton.
Newberry.	Newberry.	502	7	66.9	+ 5.0	94	7	42	25	32	6.35	+ 3.51	1.96	0	10	8	11	12	s.
Pelzer.	Anderson.	873	6								7.44		2.08	0	11	19	w.		John M. Ward.
Pinopolis.	Berkeley.	55	18								3.26	+ 0.28	1.70	0	8				Miss E. P. Ravanel.
St. George.	Dorchester.	109	23	70.2	+ 6.3	91	7	50	24†	28	5.56	+ 3.40	1.90	0	6	24	0	7	G. F. Lewis.
St. Matthews.	Calhoun.	209	23	66.8	+ 3.2	90	7†	48	25	32	10.64	+ 8.19	4.93	0	8	22	0	9	J. S. Wannamaker.
Saluda.	Saluda.	530	9	67.3		95	7	41	24	34	8.60		2.00	0	7	19	2	10	Mrs. F. V. J. Maxwell.
Santuc.	Union.	512	16	65.6	+ 4.7	92	2†	41	25	29	4.93	+ 1.80	2.16	0	10	10	10	11	n.w.
Smith Mills.	Williamsburg.	62	16								2.70	- 0.74	1.51	0	6	13	0	18	e.
Society Hill.	Darlington.	192	20	64.4	+ 3.1	89	2†	45	29	34	5.42	+ 2.31	2.85	0	6	13	4	14	ne.
Spartanburg.	Spartanburg.	875	20	63.2	+ 2.5	93	7	40	24	35	4.64	+ 2.16	2.00	0	10	11	0	20	F. P. Robinson.
Summerville.	Dorchester.	75	10	68.8	+ 4.4	91	7	50	27	30	2.63	+ 0.98	1.80	0	9	2	24	5	e.
Trenton.	Edgefield.	620	18	67.8	+ 3.9	92	1	45	24†	26	8.10	+ 4.96	2.13	0	9	12	8	11	C. A. Long.
Walterboro.	Colleton.	69	7	71.6 ^b		99 ^b	7	49 ^a	30	31	6.10		0.97	0	9	12	7	12	J. A. Westerberg.
Winnsboro.	Fairfield.	545	21	65.7	+ 2.4	90	7	43	25	25	2.63	+ 3.73	2.48	0	6	14	13	4	se.
Wintrop College.	York.	690	12	65.0	+ 4.0	91	2†	40	25	33	3.94	+ 1.51	1.37	0	11	17	6	8	ne.
Yemassee.	Hampton.	23	16	68.6	+ 4.2	94	7	50	24†	29	3.65	+ 1.08	1.15	0	6	16	0	15	J. G. Hutson.
<i>Georgia</i> .																			
Abbeville.	Wilcox.	8	19	65.4 ^c	+ 4.2	93 ^b	3	38 ^c	24†	33	2.79		0.87	0	9	16	0	15	n.
Adairsville.	Bartow.	772	19								3.38	+ 1.10	2.00	0	3	16 ^b	0	7 ^b	W. H. Calhoun.
Albany.	Dougherty.	230	25	73.0	+ 6.5	98	3†	44	23	29	2.93	+ 0.60	1.10	0	11	15	2	14	Mrs. R. C. Evans.
Allapaha.	Berrien.	293	22			97	5†				1.22	- 1.22	0.66	0	3	1	15	15	ne.
Americus.	Sumter.	362	28	69.5 ^c	+ 3.4	94 ^b	5	40	23	36	6.15	+ 3.96	2.50	0	4	18	1	12	J. T. Austin.
Athens.	Clarke.	694	34	65.6	+ 6.1	96	5	39	23	37	5.53	+ 3.01	1.57	0	11	11	2	18	C. D. Cox.
Atlanta.	Fulton.	1,218	46	65.7	+ 4.1	94	3	39	23	26	4.81	+ 2.50	1.82	0	8	10	11	10	U. S. Weather Bureau.
Augusta.	Richmond.	180	45	68.9	+ 4.6	93	7	47	23	25	7.46	+ 5.13	2.70	0	8	11	0	12	Do.
Bainbridge.	Decatur.	110	19	72.6	+ 5.4	99	5†	46	23†	32	2.31	- 0.09	0.70	0	7	16	0	15	Mrs. C. O. Wimberley.
Barnesville.	Pike.	875	2	70.2		99	3	41	23	32	6.19		2.00	0	9	11	8	12	W. C. Mobley..
Blakely.	Early.	300	20	72.7	+ 5.3	101	6	41	23	30	4.48	+ 1.67	2.00	0	4	14	10	7	Ralph M. Hobbs.
Butler.	Taylor.	650	10								4.72	+ 2.20	1.37	0	6	16	5	10	Mrs. Maule Wallace.
Camak.	Warren.	613	19	68.7	+ 5.6	96	5	41	23	32	6.65	+ 4.08	2.85	0	6	6	4	11	J. A. Chapman.
Canton.	Cherokee.	894	20								8.85	+ 6.16	2.98	0	7	15	5	11	G. W. Evans.
Carlton.	Madison.	557	12								5.34	+ 2.99	1.73	0	10	15	0	16	M. C. Power.
Clayton.	Rabun.	2,100	17	62.4	+ 5.4	85	2†	34	25	31	7.48	+ 3.55	3.47	0	7	16	7	8	A. J. Duncan.
Columbus.	Muscogee.	262	23	71.8	+ 2.9	98	3†	43	23	31	9.15	+ 6.36	3.30	0	9	16	4	11	A. J. Land.
Covington.	Newton.	800	19								7		3.30	0	7	11	8	12	Mrs. Sarah E. Cruse.
Cuthbert.	Randolph.	446	11	70.8	+ 3.3	98	3†	39	22	32	3.61		1.59	0	7	15	12	4	Prof. W. McMichael.
Dahlonega.	Lumpkin.	1,519	21	64.0	+ 4.5	88	5†	35	23	27	8.63	+ 5.60	3.97	0	12	11	14	6	se.
Diamond.	Gilmer.	2,020	21	63.0 ^c	+ 5.9	87 ^a	1†	33 ^a	23	34	4.65	+ 1.50	2.51	0	8	13	8	10	R. A. Kimzey.
Dublin.	Laurens.	452	17								3.65	+ 1.84	1.44	0	7	17	0	5	Mrs. M. E. Martin.
Eastman.	Dodge.	361	19	72.2	+ 6.1	99	3	44	23†	27	1.83	- 0.39	0.66	0	7	11	5	15	Miss Annie Bohannon.
Eatonont.	Putnam.	8									4.32		1.45	0	7	7	8	9	Prof. W. C. Wright.
Elberton.	Ellert.	710	20	66.8	+ 5.8	94	7	41	23	30	6.25	+ 3.51	1.75	0	8	14	8	9	e.
Experiment.	Spalding.	946	11	68.5	+ 5.5	93	5	39	23	31	4.36	+ 2.34	1.31	0	6	16	8	18	H. A. Roebuck.
Fort Gaines.	Clay.	166	24	71.8	+ 6.3	99	8	41	23	33	2.05	- 0.47	1.07	0	6	16	2	13	Martin V. Calvin.
Gainesville.	Hall.	1,254	34	63.0	+ 3.1	93	5	35	23	33	4.38	+ 1.70	1.57	0	8	6	7	18	W. C. Walker.
Glenville.	Tattnall.	6	71.3			93	1	51	23	37	1.78		1.78	0	7	17	8	8	William C. Barnard.
Gore.	Chattooga.	12	66.8	+ 6.1	96	3	36	23	37	4.49	+ 0.49	3.31	0	10	15	8	8	H. M. Ponder.	
Greensboro.	Greene.	598	9	67.4		94	1†	39	23	31	7.47		3.30	0	9	10	9	12	R. L. Caldwell.
Griffin.	Spalding.	975	22	66.2	+ 2.9	92	3	39	23	36	4.19	+ 0.54	1.50	0	8	11	9	11	V. P. Enloe.
Harrison.	Washington.	245	12	69.4	+ 5.2	94	5†	40	23	32	4.90	+ 2.64	1.70	0	5	19	4	8	A. W. Wood.
Hartwell.	Hart.	838	2	66.4		93	7	41	24	27	3.47		1.32	0	7	16	2	11	W. B. McMullan.
Hawkinsville.	Pul																		

TABLE 1.—Climatological data for October, 1911. District No. 2—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.			Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.								
Georgia—Continued.																					
Putnam.	Marion.	11	69.1*	+ 4.0	100*	3	38*	23	35	4.10	+ 1.58	1.50	0	6	7*	13*	10*	ne.	Mrs. J. M. Collum.		
Quitman.	Brooks.	173	75	+ 5.8	96	3	50	23†	34	5.15	+ 3.07	1.62	0	5	17	0	14	ne.	A. B. Jones.		
Rainhurst.	Murray.	1,363	18	+ 6.6	88	1†	37	23	30	5.05	+ 2.43	2.95	0	4	15	10	6	n.	D. E. Humphreys.		
Resaca.	Gordon.	657	17	+ 5.4	97	3	51	23	30	3.70	+ 1.26	2.70	0	5	20	4	7	se.	D. A. Norton.		
Rome.	Floyd.	576	55	+ 6.7	92	3	38	23†	37	3.46	+ 0.87	1.69	0	9	13	5	13	ne.	A. N. Lund.		
St. George.	Charlton.	4	73.7	+ 6.2	97	3	51	19	30	3.11	+ 1.55	0.88	0	9	18	6	7	ne.	W. M. Towers.		
St. Marys.	Camden.	20	19	74.6	+ 4.6	93	5	53	30	4.58	+ 1.55	1.72	0	8	8	11	12	w.	U. S. Weather Bureau.		
Savannah.	Chatham.	65	61	71.5	+ 4.6	93	5	53	30	4.54	+ 2.32	10.13	+ 6.36	5.00	0	11	6	13	12	ne.	W. C. Cromley.
Statesboro.	Bulloch.	253	11	72.0	+ 6.1	97	6	51	23	32	3.88	+ 1.67	1.11	0	7	9	16	6	ne.	Elmer C. Bishop.	
Talbotton.	Talbot.	750	18	71.2	+ 7.4	100	5	40	23	35	5.68	+ 2.48	2.00	0	10	18	2	11	ne.	U. S. Weather Bureau.	
Tallapoosa.	Haralson.	1,150	12	66.4	+ 4.7	95	3	37	23	31	3.54	+ 0.78	1.52	0	9	1	11	11	ne.	K. C. Moore.	
Thomasville.	Thomas.	273	29	73.4	+ 4.9	97	5	48	23	29	4.90	+ 1.77	2.50	0	7	16	5	10	ne.	Mrs. Alice Starke.	
Tifton.	Tift.	370	22	72.4†	+ 4.9	97	7	49	23	30	3.05	+ 1.77	1.63	0	3	1	11	11	ne.	Miss Annie Twitty.	
Toccoa.	Stephens.	1,050	26	63.8	+ 3.5	88	5†	41	23	29	4.84	+ 1.87	1.47	0	7	13	8	10	n.	J. M. Atwood.	
Vaidosta.	Lowndes.	210	6	75.2	+ 100	4	49	24	32	3.85	+ 1.87	1.00	0	7	9	0	22	w.	Miss Annie Twitty.		
Valona.	McIntosh.	10	14	+ 10.63	+ 5.53	42	+ 10.63	+ 5.53	+ 4.23	0	5	+ 4.23	0	5	5	8	16	7	ne.	C. L. Hobbs.	
Washington.	Wilkes.	630	23	66.8	+ 4.1	94	2†	43	23	31	8.70	+ 6.11	4.10	0	8	11	4	16	ne.	Miss Ella B. Smith.	
Waycross.	Ware.	131	22	74.4	+ 6.1	99	5	51	24†	30	3.50	+ 0.78	0.91	0	10	19	1	11	n.	Thomas Sasser.	
Waynesboro.	Burke.	86	20	68.4	+ 5.0	96	5	41	23	33	5.80	+ 3.52	1.70	0	5	6	5	20	e.	Mrs. H. W. Blount.	
West Point.	Troup.	620	22	68.8	+ 5.0	96	1†	40	24	28	2.11	+ 0.56	0.70	0	10	13	4	14	ne.	E. N. Dunn.	
Woodbury.	Merriweather.	641	10	+ 37	+ 24	+ 4.22	+ 1.90	+ 1.25	+ 0.25	0	7	+ 1.25	0	7	19	3	9	ne.	E. T. Riggins.		
Florida.																					
Apalachicola §.	Franklin.	24	7	74.5	+ 3.8	93	5	50	23	24	6.49	+ 1.77	3.44	0	5	8	16	7	ne.	G. H. Whiteside.	
Arcadia.	De Soto.	61	10	78.6	+ 3.8	95	14†	62	31	5.57	+ 1.77	1.68	0	11	17	12	2	se.	C. S. Bushnell.		
Archer.	Alachua.	92	26	79.4	+ 4.0	94	+ 26	3.73	+ 1.15	1.10	+ 0.26	0	7	+ 12	13	13	5	ne.	R. B. Hodgson.		
Avon Park.	De Soto.	150	13	79.4	+ 5.0	94	5†	66	8†	4.79	+ 0.36	1.20	0	11	8	10	13	ne.	O. R. Thacher.		
Bartow.	Polk.	115	23	78.4	+ 4.6	95	4†	62	20	3.12	+ 0.43	1.35	0	11	5	9	sw.	Wm. Hood.			
Blountstown.	Calhoun.	2	74.0*	+ 4.7	97	5	47	23	36	4.89	+ 1.35	2.40	0	4	10	12	9	sw.	C. L. Hobbs.		
Bradenton.	Manatee.	10	27	77.5	+ 3.6	89	4†	60	22	6.21	+ 3.39	2.10	0	5	15	13	3	nw.	H. H. Ten Broeck.		
Brooksville.	Hernando.	126	18	78.4	+ 5.7	97	4	58	20	33	6.87	+ 4.24	2.30	0	8	15	5	11	nw.	C. C. Peck.	
Carabelle.	Franklin.	10	12	74.4	+ 3.7	97	4	47	24	31	8.38	+ 5.39	3.52	0	8	+ 12	17	5	nw.	J. J. Blomquist.	
Cedar Keys.	Levy.	10	22	77.9	+ 5.9	93	4	58	23	23	6.49	+ 3.69	2.00	0	6	+ 10	16	5	nw.	J. B. Lutherlo.	
Clermont.	Lake.	105	18	79.8	+ 5.4	98	7	62	19	27	3.50	+ 0.26	1.20	0	7	9	17	5	ne.	S. S. Fesler.	
De Funiak Springs.	Walton.	193	13	71.8*	+ 3.7	98	6†	44	23†	33	3.53	+ 0.33	0.80	0	7	9	14	5	ne.	R. W. Storrs.	
De Land.	Volusia.	27	14	76.4	+ 4.6	92	3†	55	20	31	2.46	+ 1.00	0.96	0	9	14	12	5	e.	O. B. Webster.	
Eustis.	Lake.	56	20	78.8	+ 6.0	98	3†	58	20†	31	4.01	+ 1.00	0.94	0	8	+ 8	10	8	ne.	C. T. Smith.	
Federal Point.	Putnam.	5	19	76.8	+ 5.6	97	3	50	19	30	3.07	+ 1.99	0.60	0	12	11	16	4	e.	E. S. Hubbard.	
Fenholway.	Taylor.	75	4	+ 99	+ 5	+ 5	+ 5	+ 59	+ 29†	+ 26	+ 4.97	+ 0.28	2.26	0	11	17	7	7	ne.	Miss E. Wiggleworth.	
Fernandina.	Nassau.	10	18	76.2	+ 5.4	95	3	59	29†	+ 26	4.97	+ 0.28	2.26	0	11	17	7	7	ne.	W. B. C. Durvee.	
Fort Meade.	Polk.	125	29	79.9	+ 6.2	98	3†	63	12	33	5.50	+ 1.66	1.56	0	11	20	8	3	ne.	G. L. Brodrick.	
Fort Myers.	Lee.	12	39	78.7	+ 3.5	90	11	69	10†	20	4.62	+ 1.34	1.68	0	8	25	4	2	e.	Miss M. G. Gardner.	
Fort Pierce.	St. Lucie.	6	10	78.2	+ 2.4	90	3	66	24†	21	8.00	+ 2.01	2.30	0	12	20	5	6	ne.	T. C. Nicholson.	
Gainesville.	Alachua.	176	17	76.1	+ 5.1	96	1†	54	24	29	1.50	+ 0.98	1.08	0	7	10	10	11	se.	John Schnabel.	
Grasmere §.	Orange.	175	13	77.4	+ 4.9	95	6	50	20	30	3.11	+ 0.98	0.77	0	9	20	6	5	sw.	J. B. Escott.	
Hilliard.	Nassau.	69	2	73.8	+ 4.9	96	3	52	19	31	6.98	+ 2.25	5.00	0	7	13	11	7	ne.	B. A. Tibbets.	
Homestead.	Dade.	5	1	79.2	+ 4.9	93	15†	64	3	26	5.02	+ 1.35	2.20	0	15	17	14	0	e.	W. J. Krome.	
Hypoluxo.	Palm Beach.	9	15	81.0	+ 3.9	92	16†	67	12	24	7.62	+ 3.62	2.25	0	13	12	17	2	e.	G. A. Angevine.	
Inverness.	Citrus.	43	11	76.8	+ 4.6	93	4	59	19†	25	4.05	+ 2.09	2.20	0	6	+ 11	8	11	ne.	W. H. Miller.	
Jacksonville.	Duval.	101	41	75.9	+ 6.3	95	5	58	24	22	5.26	+ 2.02	2.71	0	9	12	8	11	ne.	U. S. Weather Bureau.	
Jasper.	Hamilton.	152	10	78.7	+ 5.3	93	1†	51	19	30	8.95	+ 7.48	5.25	0	7	15	6	10	e.	Mrs. W. C. Caldwell.	
Johnstown.	Bradford.	125	11	75.8	+ 5.5	97	8	52	20	35	4.35	+ 1.31	1.18	0	13	18	9	4	e.	A. M. C. Brasch.	
Key West.	Monroe.	14	41	81.8	+ 3.1	89	23	54	19	30	5.32	+ 0.06	0.43	0	18	13	14	4	e.	U. S. Weather Bureau.	
Kissimmee.	Oscoda.	65	18	78.4	+ 3.8	95	3†	63	20	28	3.78	+ 0.82	1.35	0	7	5	16	10	ne.	J. A. Simpson.	
Lake City.	Columbia.	210	26	74.6	+ 5.5	96	1†	54	19	30	5.53	+ 2.83	1.96	0	5	12	9	10	ne.	W. B. Knight.	
Live Oak.	Suwanee.	109	11	76.0	+ 2.8	98	1†	52	19	34	9.30	+ 6.97	4.00	0	5	24	0	7	e.	J. D. Henry.	
Macclellan.	Baker.	125	14	73.0	+ 2.8	95	2†	47	25	37	4.09	+ 1.31	1.50	0	8	10	15	6	ne.	Griffing Bros. Co.	
Madison.	Madison.	200	11	74.6	+ 5.0	98	5	52	24†	29	3.35	+ 0.76	1.56	0	6	8	1	22	ne.	E. J. Vann.	
Malabar.	Brevard.	24	17	77.3	+ 2.1	93	12	62	12	31	4.86	+ 2.18	1.31	0	11	21	4	6	se.	J. F. Farley.	
Marianna.	Jackson.	80	8	72.4	+ 2.1	97	5	44	23	32	6.20	+ 2.45	0	9	19	2	10	ne.	W. J. Watson.		
Merritts Island.	Brevard.	20	25	77.9	+ 2.5	88	3†	65	20	18	5.02	+ 0.86	1.97	0	11	0	26	5	e.	F. Ulrich.	
Miami.	Dade.	47	10	80.6	+ 2.8	90	15	70	13	16	3.53	+ 7.01	2.10	0	13	12	11	8	ne.	U. S. Weather Bureau.	
Middleburg.	Clay.	10	10	74.8*	+ 3.7	96	5†	51	25	31	3.52	+ 1.00	1.35	0	8	21	3	7	s.	G. A. Chalker.	
Molino.	Escambia.	49	9	69.8	+ 3.7	93	3†	40	23	33	4.83	+ 1.00	1.98	0	3	24	0	7	s.	W. H. Trimmer.	
Monticello.	Jefferson.	267	15	75																	

TABLE 1.—Climatological data for October, 1911. District No. 2—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.							
Alabama—Continued.																					
Camp Hill.....	Tallapoosa.....	738	10	69.8	+ 5.2	96	5	35	23	45	2.38	+ 0.65	1.00	0	6	18	6	7	s.	Dr. Lyman Ward.	
Cedar Bluff.....	Cherokee.....	594	7								3.22		1.00	0	4	15	14	2		Joe L. Daniel.	
Citronelle.....	Mobile.....	331	23	72.2	+ 4.1	96	5	40	23	28	1.76	- 1.25	0.54	0	6	16	10	5	sw.	Rev. W. H. Rose.	
Clanton.....	Chilton.....	590	18	68.8	+ 5.6	96	5	35	23	33	2.59	+ 0.27	0.76	0	7	11	0	20	se.	Wallace C. Edler.	
Cochrane.....	Pickens.....	100	1										2.00	0	4				n.	T. H. G. Cook.	
Cordova.....	Walker.....	334	20	67.0	+ 5.3	95	14	32	23	38	3.58	+ 1.04	1.50	0	6	17	9	5	s.	Scott Maxwell.	
Cullman.....	Tallapoosa.....	802	3	66.0		98	3	32	23	36	3.82		1.15	0	7	13	13	5	nw.	Eugene A. Grayot.	
Dadeville.....	Baldwin.....	760	6								2.86		1.38	0	7				e.	Dr. W. B. Fulton.	
Daphne.....	Marengo.....	20	72.8	+ 4.2	94	6	40	23	30	2.13	- 1.94	1.27	0	2	18	2	11	nw.	John H. Young.		
Demopolis.....	Eufaula.....	19										1.03	- 1.06	0.40	0	4	22	2	7	sw.	George E. Pegram.
Flomaton.....	Barbour.....	200	27	68.2	+ 3.4	93	6	38	23	29	2.26	- 0.05	0.90	0	10	14	5	12	ne.	Dr. J. B. Whitlock.	
Gadsden.....	Conecuh.....	285	27	72.0	+ 7.0	101	7	40	23	40	0.35	- 1.65	0.15	0	4	18	0	13	e.	Robt. L. Whitcomb.	
Goodwater.....	Escambia.....	91	19	70.6	+ 4.6	97	14	35	24	35	1.83	- 0.51	0.51	0	5	25	0	6	s.	T. J. Farris.	
Greensboro.....	Lownes.....	520	27	60.5	+ 4.4	95	6	41	24	29	2.15	- 0.10	1.25	0	4	13d	3d	11d	se.	J. P. Hattemer.	
Greenville.....	Etowah.....	621	27	68.6	+ 6.7	98	3	37	23	44	2.52	- 0.07	1.24	0	6	13	6	12	ne.	D. P. Goodhue.	
Hamilton.....	Coosa.....	826	16	69.8	+ 5.9	99	6	35	23	35	2.27	- 0.12	1.01	0	8	16	5	10	se.	Miss Daisy Buice.	
Highland Home.....	Hale.....	220	32	68.6	+ 4.2	93	7	40	23	26	2.04	- 0.07	0.78	0	4	21	0	10	n.	W. E. W. Verby.	
Kosciusko.....	Butler.....	444	10								2.99	+ 1.00	1.49	0	3				e.	E. M. Lewis.	
Livingston.....	Marion.....	15	69.3	+ 7.3	101	3†	30	23	45	3.14	+ 0.51	1.65	0	4	21	5	5	n.	Prof. H. O. Sargent.		
Lock No. 4.....	Crenshaw.....	19	71.4	+ 5.0	97	6	41	23	29	2.22	- 0.16	0.90	0	6	13	4	14	e.	Prof. Samuel Jordan.		
Maple Grove.....	Sumter.....	160	27	68.0	+ 4.5	94	5	36	23	32	1.95	- 0.10	1.14	0	4	20	0	11	ne.	Robt. L. King.	
Mentone.....	Talladega.....	510	14	68.6	+ 5.8	97	3	37	23	38	2.27	- 0.11	1.00	0	6	20	1	19	U. S. Engineers.		
Mistletoe.....	Cherokee.....	18	67.8	+ 7.1	100	3	40	24	36	3.90	+ 1.35	1.01	0	8	17	6	6	ne.	Mrs. A. L. Awbrey.		
Montgomery.....	De Kalb.....	1,595	4								6.58		3.42	0	6				e.	E. Mason.	
Mobile.....	Macon.....	8									3.60		1.80	0	6				n.	Evie Oswalt.	
Montgomery.....	Mobile.....	84	39	72.6	+ 5.5	93	5	44	23	26	2.89	- 0.29	2.20	0	7	11	7	13	n.	U. S. Weather Bureau.	
Newbern.....	Montgomery.....	240	39	70.8	+ 5.1	95	5	42	23	27	2.91	+ 0.47	1.58	0	7	13	13	6	ne.	Do.	
Oneonta.....	Hale.....	18	70.2	+ 4.7	101	6	36	23	34	2.06	+ 0.02	0.92	0	5	15	10	6	n.	Dr. J. Huggins.		
Opelika.....	Blount.....	857	17	67.0	+ 6.4	95	1†	32	23	36	4.57	+ 1.97	2.76	0	9	15	5	11	ne.	Aquilla J. Ketchum.	
Ozark.....	Lee.....	817	32	67.8	+ 3.7	90	3†	41	23	25	1.96	- 0.95	0.70	0	8	17	0	14	n.	A. H. Read, jr.	
Prattville.....	Dale.....	400	9	70.6		95	7	41	23	31	2.95		1.55	0	6	19	4	8	n.	Miss Lucy Sellers.	
Pushmataha.....	Autauga.....	281	11	69.4	+ 4.9	94	5†	30	23	35	3.44		1.22	0	7	15	9	7	n.	Jos. B. Bell.	
Selma.....	Choctaw.....	20	69.0 ^b	+ 5.0	97 ^b	3	36 ^b	23	33 ^b	1.81	- 0.46	1.17	0	3	4a	19 ^a	7 ^a	7 ^a	e.	W. N. Horn.	
Spring Hill.....	Dallas.....	147	31	70.0	+ 4.3	97	5	37	23	35	2.60	+ 0.55	1.18	0	7	18	3	10	n.	Charles F. Brislin.	
Talladega.....	Mobile.....	312	7	72.0		94	4	40	23	39	2.89		1.89	0	5	13 ^a	9 ^a	8 ^a	n.	Spring Hill College.	
Tallassee.....	Talladega.....	554	21	69.0	+ 5.1	97	6	38	23	34	1.73	- 0.41	0.60	0	5	18	6	7	w.	W. E. Henkel.	
Thomasville.....	Elmore.....	20									3.02	+ 0.99	1.21	0	7				n.	P. A. Noble.	
Troy.....	Clarke.....	385	20	67.5	+ 2.9	95	5	36	23	35	2.97	+ 1.14	1.45	0	5	20	0	11	n.	J. G. Forster.	
Tuscaloosa.....	Pike.....	581	3	72.0		100	5	41	23	30	3.06		0.91	0	10	7	18	6	ne.	Frank L. Zimmermann.	
Tuskegee.....	Tuscaloosa.....	230	30	68.7	+ 5.2	98	3	38	23	34	5.01	+ 3.09	2.83	0	5	20	0	11	n.	W. S. Wymann, jr.	
Union Springs.....	Macoupin.....	11	70.8	+ 3.4	99	4†	35	19	41	2.50	+ 0.43	1.26	0	3	5	23	3	ne.	Prof. Geo. W. Carver.		
Uniontown.....	Bullock.....	216	24	69.6	+ 4.9	93	6	39	23	27	4.39	+ 1.42	2.40	0	3	14	14	3	w.	P. L. Cowan.	
Valley Head.....	Perry.....	273	25	68.4	+ 2.0	98	4	42	23	38	0.72	- 1.36	0.53	0	3	13	7	11	nn.	F. D. Stevens.	
Wetumpka.....	De Kalb.....	1,031	26	66.4	+ 6.4	95	3†	32	23	36	6.52	+ 3.61	3.73	0	6	21	7	3	n.	M. T. Floyd, M. D.	
	Elmore.....	205	19	72.4	+ 6.2	99	3†	39	23	35	3.07	+ 0.87	1.33	0	5	16	0	15	n.	U. S. Engineers.	
Mississippi.																					
Aberdeen.....	Monroe.....	210	23	66.6	+ 5.5	97	3†	32	23	39	1.52	- 0.45	0.48	0	5	18	0	13	n.	L. D. Godfrey, jr.	
Agricultural College.....	Oktibbeha.....	424	21	65.8	+ 1.4	97	34	33	23	34	1.28	- 0.69	0.50	0	6	21	9	1	n.	J. R. Ricks.	
Bay St. Louis.....	Hancock.....	28	18	73.5	+ 4.7	92	2	41	23	33	2.50	- 0.38	1.00	0	8	21	2	8	s.	Brother Stanislaus.	
Biloxi.....	Harrison.....	24	20	74.1	+ 5.4	91	1†	44	23	28	4.37	+ 1.39	3.09	0	4	15a	3a	12a	sw.	Miss M. Josie Pope.	
Booneville.....	Prentiss.....	504	17	64.4	+ 2.7	91	3†	36	23	31	1.76	- 0.83	0.74	0	4	17	9	5	n.	Dr. D. T. Price.	
Brookhaven.....	Lincoln.....	500	23	69.6	+ 4.2	97	2†	35	24	40	3.33	+ 0.93	1.92	0	5	15	8	8	e.	W. J. Bee.	
Columbia.....	Marion.....	110	7								3.47		2.20	0	6	19	3	9	nw.	N. R. Drummond.	
Columbus.....	Lowndes.....	191	23	67.4	+ 4.1	100	3†	32	23	41	1.18	- 1.13	0.48	0	5	15	3	13	ne.	J. B. Love.	
Crystal Springs.....	Copiah.....	168	19	68.4	+ 2.5	97	3	35	23	35	2.77	+ 0.18	2.28	0	4	22	5	4	ne.	D. H. Miller.	
Edinburg.....	Newton.....	3	67.4			96	4†	31	23	45	0.53		0.23	0	5	19	4	8	n.	J. Y. Blocker.	
Enterprise.....	Clarke.....	248	6								3.80		2.00	0	5				n.	J. B. Thompson.	
Fulton.....	Itawamba.....	2									2.44		0.92	0	6	14	5	12	n.	A. L. Summers.	
Hattiesburg.....	Forest.....	189	18	70.6	+ 4.7	98	2†	35	23	41	0.96	- 0.88	0.50	0	2	23	0	8	n.	T. C. Spence.	
Hazlehurst.....	Copiah.....	460	21	68.2	+ 2.4	96	4	36	23	37	1.33	- 1.25	1.03	0	4	18	2	11	n.	J. D. Granberry.	
Hickory.....	Newton.....	326	1								1.40		0.70	0	4	13c	12c	3c	ne.	T. N. McMullen.	
Jackson.....	Hinds.....	280	24	69.6	+ 5.4	98	4	32	23	40	0.78	- 1.30	0.30	0	6	11	12	8	ne.	A. S. Nall.	
Lake.....	Jasper.....	446	23			93	5†	33	23	41	1.08		0.74	0	2	15	12	4	nw.	Mrs. Eddie McNeel.	
Lake Como.....	Jones.....	8	68.8			97	6†	33	23	38	1.72		0.85	0	3	19	6	6			

TABLE 2.—*Daily precipitation for October, 1911. District No. 2, South Atlantic and east Gulf States.*

TABLE 2.—*Daily precipitation for October, 1911. District No. 2—Continued.*

TABLE 2.—*Daily precipitation for October, 1911. District No. 2—Continued.*

TABLE 2.—*Daily precipitation for October 1911. District No. 2—Continued.*

* Precipitation included in that of the next measurement.

^t Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.
Precipitation is less than 0.01 inch rain or melted snow.

1. Precipitation is less than 0.01 inch rain or melted snow.

MONTHLY WEATHER REVIEW.

OCTOBER, 1911

TABLE 3.—Maximum and minimum temperatures at selected stations, October, 1911. District No. 2, South Atlantic and East Gulf States.

Date.	Virginia.								North Carolina.												South Carolina.							
	Lynchburg.		Norfolk.		Richmond.		Saxe.		Charlotte.		Edenton.		Fayetteville.		Hatteras.		Newbern. §§		Raleigh.		Reidsville.		Salisbury.		Wilmington.		Charleston.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	68	54	74	57	74	51	75	57	75	64	73	50	81	57	77	64	83	56	79	57	73	57	76	61	81	62	80	70
2....	80	56	82	62	82	57	84	72	89	68	73	56	91	67	85	69	93	64	85	65	82	69	88	69	91	75	91	77
3....	56	54	67	60	64	56	75	60	75	60	61	50	80	63	74	67	73	61	67	59	75	54	85	53	78	66	82	72
4....	80	55	82	60	85	59	82	59	79	59	80	58	83	62	82	67	83	62	81	62	80	56	80	54	84	62	82	70
5....	75	54	74	60	72	50	78	62	83	63	76	51	86	64	79	63	84	61	78	59	75	56	83	57	84	64	90	75
6....	69	47	72	56	71	47	74	49	79	55	70	50	80	54	72	60	79	50	75	51	75	48	79	50	74	58	82	72
7....	87	49	89	56	82	48	92	62	91	65	88	60	93	67	83	66	92	52	92	53	93	55	94	65	91	69	93	77
8....	55	48	62	56	64	49	62	55	65	51	63	53	70	54	69	64	67	55	70	50	57	47	51	70	57	80	66	
9....	66	53	65	57	65	56	63	54	62	51	51	51	69	58	70	63	73	52	66	55	65	50	64	50	77	57	79	65
10....	60	59	67	60	65	53	61	53	69	60	53	53	74	62	72	66	79	55	69	61	63	58	66	51	74	63	78	71
11....	78	59	69	60	75	58	65	55	76	64	73	51	70	63	80	67	79	58	70	61	82	59	81	62	80	65	82	70
12....	70	56	68	59	69	53	68	52	73	57	69	53	76	60	70	62	74	60	71	57	72	59	76	59	75	61	81	67
13....	69	45	63	55	68	47	68	56	70	51	69	50	75	50	67	59	75	50	70	51	75	46	73	53	73	61		
14....	69	47	66	50	68	45	76	48	70	55	67	43	74	48	68	55	77	47	70	50	72	48	75	51	71	56	77	
15....	77	53	76	56	78	48	79	54	82	56	69	54	76	65	79	51	82	55	82	51	85	50	82	56	81	64		
16....	70	55	65	57	60	50	74	61	82	63	80	57	81	61	72	64	74	56	70	58	72	55	84	49	82	64	83	68
17....	66	55	73	56	69	47	71	59	71	61	85	68	80	60	78	64	81	55	74	59	67	60	71	62	78	61	80	72
18....	71	54	69	61	73	58	78	60	72	56	70	60	74	60	72	64	69	57	75	59	75	52	76	53	74	63	75	65
19....	75	50	68	57	73	51	76	50	73	49	72	52	78	52	72	60	74	49	73	52	76	46	76	45	74	56	77	61
20....	70	49	66	62	66	60	70	68	73	52	71	53	70	51	68	64	70	49	67	54	70	50	73	49	73	54	77	63
Mns..	68.6	49.9	68.8	56.4	68.6	49.9	71.3	54.4	71.7	55.2	70.9 ^b	52.9 ^b	75.6	55.3	72.1	62.2	76.0	52.8	71.2	53.8	72.1	50.9	74.6	51.3	75.8	58.5	77.8	65.4
South Carolina.																									Georgia.			
Date.	Columbia.		Conway. §§		Ferguson. §§		Georgetown.		Greenville. §§		Newberry.		Society Hill.		Albany. §§		Atlanta.		Augusta.		Dahlonega.		Macon.		Rome. §§		Savannah.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	76	66	85	65	78	70	85	73	88	61	80	68	79	67	95	73	89	69	84	69	82	67	93	74	96	66	87	72
1....	91	68	94	71	76	66	90	72	91	64	92	69	89	65	95	68	88	68	92	69	85	64	91	70	96	65	91	71
3....	78	68	76	70	74	68	75	69	75	68	84	68	75	64	98	69	94	68	81	71	85	67	95	70	99	67	90	72
4....	82	66	88	65	84	65	87	62	86	61	84	63	82	64	96	74	86	66	84	63	89	73	95	69	86	69	93	73
5....	87	67	91	72	88	71	87	59	88	68	83	68	82	56	97	69	88	67	92	71	88	62	94	71	94	65	93	73
6....	83	58	84	59	86	57	85	50	81	54	84	56	80	61	97	68	89	64	87	66	81	61	92	71	95	58	85	76
7....	92	70	95	61	94	58	93	73	92	55	94	71	89	55	98	70	89	70	93	71	88	61	93	68	95	58	92	74
8....	78	56	69	61	63	56	73	60	65	55	59	58	57	57	98	71	79	58	64	60	66	56	83	63	88	68	80	66
9....	74	57	73	61	77	56	75	60	73	53	68	54	68	62	85	69	64	55	80	60	66	56	71	60	68	60	80	64
10....	77	62	80	61	79	62	77	65	65	55	74	61	75	64	90	69	70	63	80	67	66	63	81	67	71	60	78	70
11....	80	69	85	66	81	66	82	65	80	62	78	68	75	62	85	72	76	65	81	70	76	64	82	69	81	66	82	69
12....	78	60	82	68	80	69	70	59	80	57	78	63	75	52	87	71	76	60	82	63	80	60	82	66	82	66	82	68
13....	73	53	79	58	74	52	65	55	78	47	73	51	70	51	84	62	72	56	75	57	68	49	75	58	78	50	80	55
14....	76	56	78	54	81	53	75	57	76	48	75	55	70	52	87	64	72	55	75	58	76	61	70	52	83	51	76	63
15....	83	56	86	55	80	58	56	85	53	84	56	80	62	89	65	83	62	84	59	79	61	85	62	85	58	84	64	83
16....	85	63	81	67	87	58	86	62	84	59	86	61	80	64	90	63	81	64	84	65	78	60	83	68	86	64	83	68
17....	74	54	81	64	79	61	86	65	70	60	76	66	72	60	75	68	69	54	74	64	72	60	73	68	72	65	78	72
18....	75	60	80	65	76	64	76	65	77	52	74	61	73	52	74	65	55	70	51	75	59	69	52	73	55	74	50	74
19....	77	52	81	52	78	54	79	57	77	48	77	50	73	51	81	54	72	53	76	56	71	57	68	49	76	55	74	59
20....	77	54	82	52	78	53	81	54	76	49	77	52	73	58	82	56	74	58	78	56	68	49	77	58	76	57	73	63
21....	78	59	81	54	80	58	82	61	77	54	75	58	72	58	83	53	74	59	78	60	76	55	80	52	78	65	80	65
22....	68	64	84	58	81	62	85	61	76	60	70	62	73	57	76	65	68	61	71	57	72	56	76	60	80	69	80	69
23....	69	53	79	65	70	58	72	62	73	43	69	51	67	46	68	44	63	39										

TABLE 3.—*Maximum and minimum temperatures at selected stations, October, 1911. District No. 2—Continued.*

Date.	Georgia.						Florida.															Tallahassee.		Tampa.				
	Thomasville.		Waycross.		West Point.		Avon Park.		Fort Myers.		Gainesville.		Jacksonville.		Key West.		Miami.		Orange City.		Orlando.		Pensacola.		Tallahassee.		Tampa.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	94	72	97	72	96	69	92	67	89	71	96	70	92	76	87	72	87	79	94	63	94	66	87	77	88	73	89	70
2.....	93	69	94	72	91	68	90	67	87	71	95	70	91	74	87	73	87	79	96	68	94	69	87	77	91	70	88	72
3.....	95	71	98	69	96	68	93	68	89	72	95	69	94	72	88	79	87	78	96	70	94	71	87	78	91	71	91	75
4.....	95	70	95	74	92	72	92	68	89	71	96	70	90	77	87	79	86	71	95	69	70	87	75	92	72	92	75	
5.....	97	70	99	72	93	67	94	71	89	71	91	70	94	75	87	76	87	72	95	67	93	70	88	74	93	72	92	73
6.....	96	70	97	70	93	66	93	69	80	73	95	70	85	75	88	77	87	81	95	66	93	63	88	74	90	74	92	73
7.....	94	72	97	72	92	68	89	72	93	72	93	75	88	79	86	73	95	65	94	68	87	78	91	73	90	74		
8.....	95	70	97	71	94	67	92	66	89	71	95	70	95	74	89	79	85	71	88	72	94	72	88	75	91	72	92	74
9.....	88	73	88	68	73	63	93	70	88	71	93	69	88	76	88	78	88	68	93	70	84	73	90	73	88	73	90	
10....	91	73	90	68	81	64	94	68	89	69	93	69	87	74	88	76	85	80	89	65	91	65	84	70	87	74	90	70
11....	92	71	91	71	78	63	91	70	90	70	92	69	88	74	87	74	86	73	88	66	93	68	84	74	86	71	91	72
12....	90	65	89	72	81	66	90	69	88	70	92	70	86	72	88	76	76	73	92	65	91	66	82	72	87	71	88	73
13....	85	61	84	61	76	54	93	72	88	74	88	65	82	69	87	74	85	64	90	68	83	69	83	64	88	72		
14....	81	62	79	61	81	58	85	70	82	72	83	64	84	69	87	78	87	73	82	61	84	66	82	69	78	65	79	
15....	88	59	88	62	82	60	84	72	86	65	85	66	88	79	90	74	86	68	89	71	81	75	83	63	88	70		
16....	87	69	90	64	86	66	93	71	86	72	91	70	85	73	89	79	88	75	86	67	88	68	81	69	88	73		
17....	75	66	76	69	72	69	87	70	86	73	74	61	79	70	87	81	88	79	82	70	81	71	77	63	81	69		
18....	77	55	81	62	72	51	86	70	82	71	78	64	79	65	86	81	84	77	83	70	84	71	74	58	73	59	82	
19....	80	52	83	53	73	49	88	69	80	73	81	55	81	59	85	74	83	72	84	56	83	63	75	60	77	56	81	65
20....	82	54	85	57	80	52	89	67	82	71	84	55	80	63	86	80	87	71	87	55	88	78	81	61	78	59	85	64
21....	80	62	85	64	80	57	92	69	84	73	85	55	82	70	88	78	86	73	90	67	87	66	76	66	79	63	87	73
22....	82	58	80	74	83	64	91	70	86	72	80	69	81	70	87	79	87	73	91	65	88	69	72	60	86	63	83	72
23....	71	48	75	53	67	39	84	67	84	73	80	69	78	59	89	76	87	73	84	66	81	68	76	68	84	58	79	69
24....	74	50	75	51	69	40	86	66	84	70	81	54	77	58	86	74	83	74	84	73	85	62	72	53	83	62	73	
25....	65	57	64	51	68	43	88	66	84	69	73	61	71	60	85	78	84	73	81	67	87	68	74	57	86	66	86	
Mns.	83.6	63.2	84.4	63.9	78.8	58.9	89.5	69.2	85.5	71.9	86.4	65.8	83.1	68.7	86.8	76.8	86.4	74.8	87.5	66.0	88.4	68.0	79.5	66.7	81.2	64.8	86.2	70.4

Date.	Alabama.												Mississippi.											
	Anniston.		Bermuda.		Birming-ham.		Eufaula.		Mobile.		Montgomery.		Tusca-loosa.		Union-town.		Colum-bus.		Hattiesburg.		Jackson.		Meridian.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	92	65	93	66	92	70	90	68	87	75	93	72	96	68	93	66	99	69	97	66	97	72	91	70
2.....	90	69	93	64	90	69	90	64	89	76	91	70	93	69	95	65	99	66	98	65	96	68	91	69
3.....	94	67	90	66	93	72	91	64	88	74	93	70	98	66	96	66	100	66	98	68	97	68	92	69
4.....	91	69	94	66	92	72	90	65	89	73	93	69	95	68	98	65	99	64	97	67	98	67	92	68
5.....	92	65	96	65	92	67	92	63	93	72	95	69	95	67	94	66	99	64	98	66	96	67	92	65
6.....	93	64	94	64	93	70	93	64	88	72	94	69	97	68	94	66	100	65	97	65	97	66	92	67
7.....	92	71	93	65	90	68	88	72	88	74	93	71	95	68	92	64	98	70	98	70	96	70	90	65
8.....	90	65	93	68	79	63	91	66	87	72	94	69	88	63	83	65	79	59	90	64	76	60	81	60
9.....	70	60	60	57	72	63	78	66	86	71	81	68	78	63	78	65	71	61	80	65	66	60	79	64
10....	73	65	65	63	71	67	82	61	81	69	84	67	88	57	93	50	88	53	90	60	88	56	85	58
11....	79	66	80	67	79	66	83	74	75	69	88	68	88	61	81	67	84	66	86	70	80	70	80	70
12....	79	54	80	60	82	67	86	71	83	64	84	64	87	51	85	66	85	63	88	68	83	68	85	65
13....	77	49	82	58	78	52	85	55	83	67	80	58	80	55	85	61	78	53	86	60	81	58	77	
14....	81	61	82	60	77	60	85	67	83	68	83	63	87	55	85	58	87	53	88	59	89	57	83	
15....	85	63	85	63	84	62	81	59	81	69	84	67	88	57	93	50	88	53	90	60	88	56	85	
16....	85	66	83	65	85	65	83	62	76	65	85	69	85	60	76	52	84	55	80	58	77	68	81	64
17....	68	55	91	61	70	59	65	52	71	55	75	53	72	58	75	51	73	58	72	66	73	56	73	
18....	72	48	75	50	70	49	65	52	71	55	73	55	72	53	78	55	74	53	78	47	77	51	71	
19....	73	45	79																					